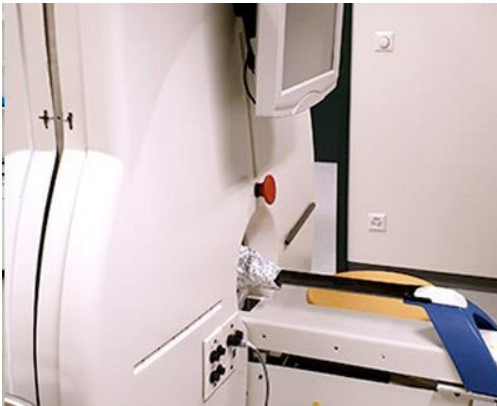


## Technical Information



### LabPET4 scanner

TriFoil Imaging

**Location address:**

EPFL AVP CP CIBM AIT CH F0-608

**Contact Person:**

Dr Bernard Lanz (bernard.lanz@epfl.ch)

### Description

CIBM owns an avalanche photodiode (APD) PET scanner situated adjacent to the preclinical MRI of the CIBM-AIT, ideal for investigators wishing to complement their rodent MR studies with PET measurement. All positron-emitter isotopes that can be produced off-site and transported to the CIBM can be measured. Physiology support is assured through the infrastructure of the CIBM-AIT.

### Specifications

- **Geometry:**
  - **ring diameter:** 15.6 cm
  - **Aperture / Transverse field of view:** 11 cm
  - **Axial field of view:** 3.7 cm
  - **Spatial Resolution:** 1 mm
- **Number of APD Detectors:** 1536 (Phoswich pairs of LYSO and LGSO crystals)
- Fully parallel digital data processing and acquisition in PET imaging
- Static and dynamic tomographic acquisitions
- Integrated physiological monitoring system for ECG, respiration, and temperature

### Additional related infrastructure

- Classified type-C working zone according to the Swiss Federal Radiological Protection Ordinance
- Proximity of CIBM MRI EPFL animalerie

### Software:

- LabPET acquisition, calibration and normalisation software
- PMOD image analysis software